A

pT-1 serine analogues abolish Plk1 PBD : peptide binding in solution

Peptide name	Peptide sequence	K_d
PoloBoxtide-optimal	MAGPMQ-S-pT-P-LNGAKK (SEQ ID NO: 3)	280 ± 27 nM
PoloBoxtide–7A	MAGPMQ-A-pT-P-LNGAYKK (SEQ ID NO: 68)	N.D.B.
PoloBoxtide–7G	MAGPMQ-G-pT-P-LNGAYKK (SEQ ID NO: 69)	N.D.B.
PoloBoxtide–7C	MAGPMQ-C-pT-P-LNGAYKK (SEQ ID NO: 70)	N.D.B.
PoloBoxtide–7T	MAGPMQ-T-pT-P-LNGAYKK (SEQ ID NO: 71)	N.D.B.

B

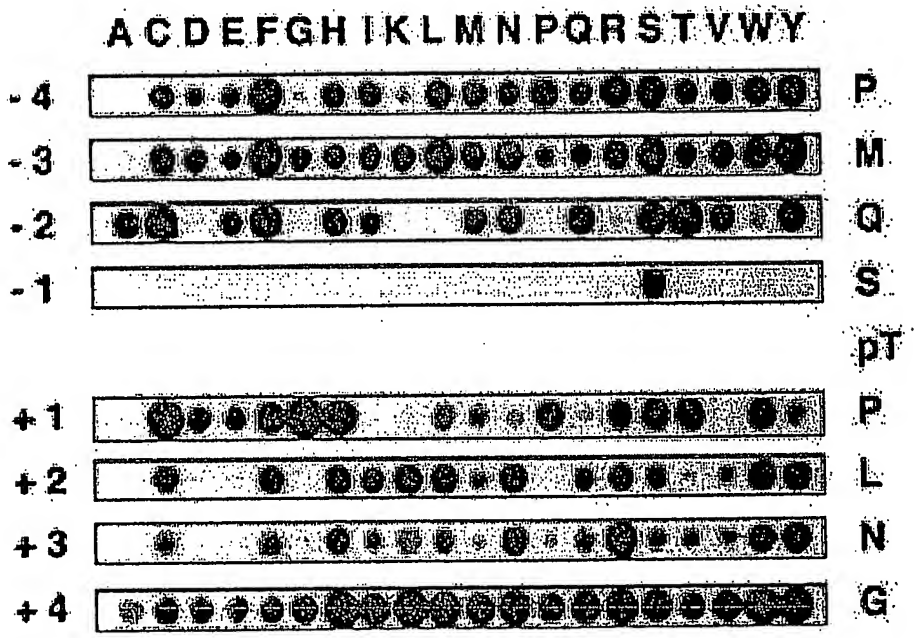
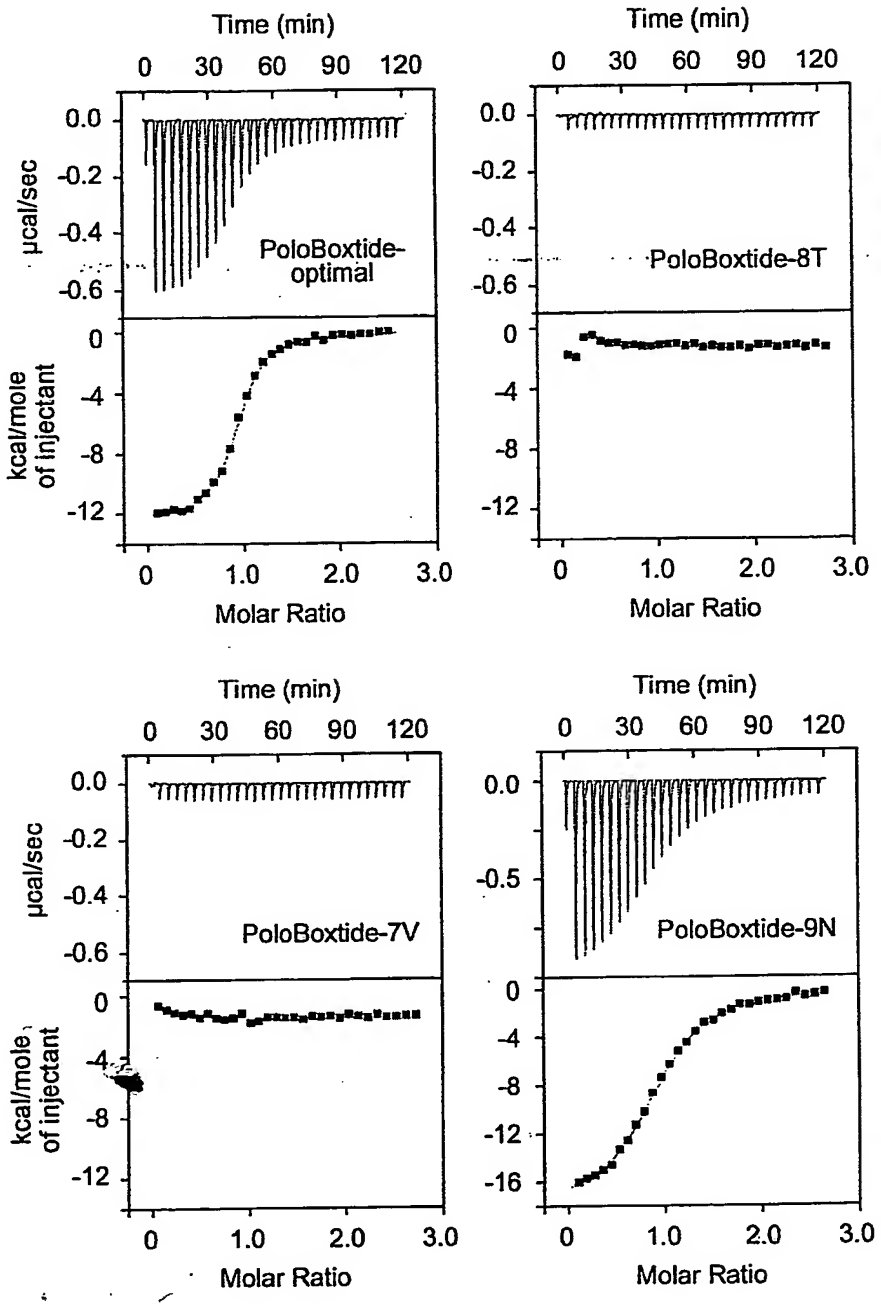


Figure 9



Peptide binding affinities for the Plk1 Polo Box Domain

Peptide name	Peptide sequence	K_d
PoloBoxtide-optimal	MAGPMQ-S-pT-P-LNGAKK (SEQ ID NO: 3)	280 ± 27 nM
Effect of pT		
PoloBoxtide–8T	MAGPMQ-S-**T**-P-LNGAKK (SEQ ID NO: 34)	N.D.B.
PoloBoxtide–8pS	MAGPMQ-S-**pS**-P-LNGAYKK (SEQ ID NO: 65)	2.1µM
PoloBoxtide–8pY	MAGPMQ-S-**pY**-P-LNGAYKK (SEQ ID NO: 66)	N.D.B.
Effect of serine at pT-1 position		
PoloBoxtide–7V	MAGPMQ-**V**-pT-P-LNGAKK (SEQ ID NO: 67)	N.D.B.
PoloBoxtide–7A	MAGPMQ-**A**-pT-P-LNGAYKK (SEQ ID NO: 68)	N.D.B.
PoloBoxtide–7G	MAGPMQ-**G**-pT-P-LNGAYKK (SEQ ID NO: 69)	N.D.B.
PoloBoxtide–7C	MAGPMQ-**C**-pT-P-LNGAYKK (SEQ ID NO: 70)	N.D.B.
PoloBoxtide–7T	MAGPMQ-**T**-pT-P-LNGAYKK (SEQ ID NO: 71)	N.D.B.
Effect of proline at pT+1 position		
PoloBoxtide–9N	MAGPMQ-S-pT-**N**-LNGAKK (SEQ ID NO: 72)	1.5µM

Figure 4